



Molecular Allergy Test Catalog

ImmunoCAP® Allergen Component Packages*

Foods

Peanut Component Package

f422 rAra h 1 Peanut
f423 rAra h 2 Peanut
f424 rAra h 3 Peanut
f352 rAra h 8 PR-10, Peanut
f427 rAra h 9 LTP, Peanut
f13 Peanut (Complete Allergen)
o214 CCD MUXF3 from Bromelain

Egg Component Package

f233 nGal d 1 Ovomucoid, Egg
f232 nGal d 2 Ovalbumin, Egg
f323 nGal d 3 Conalbumin, Egg
f1 Egg white (Complete Allergen)

Milk Component Package

f76 nBos d 4 α -lactalbumin, Milk
f77 nBos d 5 β -lactoglobulin, Milk
f78 nBos d 8 Casein, Milk
f334 nBos d Lactoferrin, Milk
f2 Milk (Complete Allergen)

Wheat Component Package

f416 rTri a 19 Omega-5 Gliadin, Wheat
f4 Wheat (Complete Allergen)

Kiwi Component Package

f430 rAct d 8 PR-10, Kiwi
f84 Kiwi (Complete Allergen)

Celery Component Package

f417 rApi g 1.01 PR-10, Celery
g212 rPhl p 12 Timothy
f85 Celery (Complete Allergen)
o214 CCD MUXF3 from Bromelain

Brazil Nut Component Package

f354 rBer e 1 Brazil nut
f18 Brazil nut (Complete Allergen)

Hazelnut Component Package

f428 rCor a 1 PR-10, Hazelnut
f425 rCor a 8 LTP, Hazelnut
f17 Hazelnut (Complete Allergen)
f429 Filbert (Complete Allergen)

Fish Component Package

f355 rCyp c 1 Carp
f426 rGad c 1 Cod
f3 Cod (Complete Allergen)

Soy Component Package

f353 rGly m 4 PR-10, Soy
f14 Soy (Complete Allergen)

Shrimp Component Package

f351 rPen a 1 Tropomyosin, Shrimp
f24 Shrimp (Complete Allergen)

Stone Fruit Component Package

f419 rPru p 1 PR-10, Peach
f420 rPru p 3 LTP, Peach
f421 rPru p 4 Profilin, Peach
f95, f242, etc. Stone Fruit primary
(Complete Allergen)
o214 CCD MUXF3 from Bromelain

Epidermals and Animal Protein

Dog Component Package

e101 rCan f 1 Dog
e102 rCan f 2 Dog
e221 nCan f 3 Dog serum albumin
e5 Dog (Complete Allergen)

Cat Component Package

e94 rFel d 1 Cat
e220 nFel d 2 Cat serum albumin
e1 Cat (Complete Allergen)

ImmunoCAP® Allergen Component Packages*

Grass Pollens
Bermuda Grass Component Package g216 nCyn d 1 Bermuda grass g2 Bermuda grass (Complete Allergen) o214 CCD MUXF3 from Bromelain
Timothy Grass Component Package g205 rPhl p 1 Timothy g206 rPhl p 2 Timothy g208 nPhl p 4 Timothy g209 rPhl p 6 Timothy g210 rPhl p 7 Timothy g211 rPhl p 11 Timothy g212 rPhl p 12 Profilin, Timothy g215 rPhl p 5b Timothy g6 Timothy grass (Complete Allergen) o214 CCD MUXF3 from Bromelain

Microorganisms
Alternaria Component Package m229 rAlt a 1 m6 Alternaria (Complete Allergen)
Aspergillus Component Package m218 rAsp f 1 m219 rAsp f 2 m220 rAsp f 3 m221 rAsp f 4 m222 rAsp f 6 m3 Aspergillus (Complete Allergen)

Mites
House Dust Mite Component Package d202 nDer p 1 House dust mite d203 rDer p 2 House dust mite d205 rDer p 10 Tropomyosin, House dust mite d1 House dust mite (Complete Allergen)

Occupational
Latex Component Package k215 rHev b 1 Latex k217 rHev b 3 Latex k218 rHev b 5 Latex k219 rHev b 6.01 Latex k220 rHev b 6.02 Latex k221 rHev b 8 Profilin, Latex k222 rHev b 9 Latex k224 rHev b 11 Latex k82 Latex (Complete Allergen) o214 CCD MUXF3 from Bromelain

Tree Pollens
Birch Component Package t215 rBet v 1 PR-10, Birch t216 rBet v 2 Profilin, Birch t220 rBet v 4 Birch t225 rBet v 6 Birch t221 rBet v 2, rbet v 4 Birch t3 Birch (Complete Allergen)
Cypress Component Package t226 nCup a 1 Cypress t23 Italian/funeral cypress (Complete Allergen)
Olive Component Package t224 nOle e 1 Olive t9 Olive (Complete Allergen)

Venoms
Honey Bee Component Package i208 rApi m 1 Phospholipase A2, Honey bee i1 Honey bee (Complete Allergen) o214 CCD MUXF3 from Bromelain
Common Wasp Component Package i209 rVes v 5 Common wasp i3 Common wasp (Complete Allergen) o214 CCD MUXF3 from Bromelain
Paper Wasp Component Package i210 rPol d 5 Paper wasp i4 Paper wasp (Complete Allergen) o214 CCD MUXF3 from Bromelain

Weed Pollens
Ragweed Component Package w230 nAmb a 1 Ragweed w1 Ragweed (Complete Allergen)
Mugwort Component Package w231 nArt v 1 Mugwort w233 nArt v 3 LTP, Mugwort w6 Mugwort (Complete Allergen)
Saltwort Component Package w232 nSal k 1 Saltwort w11 Saltwort, Russian thistle (Complete Allergen)

ImmunoCAP ISAC®* (Immuno Solid-phase Allergen Chip)

ImmunoCAP ISAC Microarray Panel (103 results from more than 47 allergens)

Plants
Allergen Component nCyn d 1 Bermuda grass rPhl p 1 Timothy rPhl p 2 Timothy nPhl p 4 Timothy rPhl p 5 Timothy rPhl p 6 Timothy rPhl p 11 Timothy rBet v 1 Birch rAln g 1 Alder rCor a 1.0101 Hazel pollen nCry j 1 Japanese cedar nCup a 1 Cypress nOle e 1 Olive rPla a 1 Plane tree nPla a 2 Plane tree nAmb a 1 Ragweed nArt v 1 Mugwort nArt v 3 Mugwort rPar j 2 Wall pellitory nSal k 1 Saltwort nAct d 1 Kiwi nAct d 2 Kiwi nAct d 5 Kiwi nAct d 8 Kiwi rApi g 1 Celery rDau c 1 Carrot rMal d 1 Apple rPru p 1 Peach nPru p 3 Peach rAna o 2 Cashew nut nAra h 1 Peanut nAra h 2 Peanut nAra h 3 Peanut rAra h 8 Peanut rBer e 1 Brazil nut rCor a 1.0401 Hazelnut rCor a 8 Hazelnut nCor a 9 Hazelnut rGly m 4 Soybean nGly m 5 Soybean nGly m 6 Soybean nSes i 1 Sesame seed

Plants (cont.)
Allergen Component nTri a 18 Wheat nTri a Gliadin Wheat rTri a 19.0101 Wheat nTri a aA_TI Wheat rHev b 1 Latex rHev b 3 Latex rHev b 5 Latex rHev b 6 Latex
Cross-reactive markers, plants
Allergen Component rBet v 4 Birch rPhl p 7 Timothy rBet v 2 Birch rHev b 8 Latex rMer a 1 Annual mercury nOle e 2 Olive rPhl p 12 Timothy nAna c 2 Bromelain

Non-plants
Allergen Component nBos d 4 Cow’s milk nBos d 5 Cow’s milk nBos d 6 BSA nBos d 8 Cow’s milk nBos d Lactoferrin Cow’s milk nGal d 1 Egg nGal d 2 Egg nGal d 3 Egg nGal d 5 CSA (Livetin) rCyp c 1 Carp rGad c 1 Cod rDer f 1 House dust mite rDer f 2 House dust mite nDer p 1 House dust mite nDer p 2 House dust mite rEur m 2 Storage mite rCan f 1 Dog rCan f 2 Dog nCan f 3 Dog nEqu c 3 Horse

Non-plants (cont.)
Allergen Component rFel d 1 Cat nFel d 2 Cat rFel d 4 Cat nMus m 1 Mouse rAlt a 1 Alternaria rAlt a 6 Alternaria rAsp f 1 Aspergillus rAsp f 2 Aspergillus rAsp f 3 Aspergillus rAsp f 4 Aspergillus rAsp f 6 Aspergillus rCla h 8 Cladosporium nApi m 1 Honey bee venom nApi m 4 Honey bee venom rBla g 1 Cockroach rBla g 2 Cockroach rBla g 4 Cockroach rBla g 5 Cockroach rAni s 1 Anisakis

Cross-reactive markers, non-plants
Allergen Component rAni s 3 Anisakis nBla g 7 Cockroach rDer p 10 House dust mite rPen a 1 Shrimp nPen i 1 Shrimp nPen m 1 Shrimp

*Please include one requisition form **per specimen***

Invoice Number _____

ImmunoCAP ISAC®*

(Immuno Solid-phase Allergen Chip)

- ☐ ImmunoCAP ISAC Microarray Panel **IgE** **\$250**
(103 results from over 50 allergens)

ISAC Specimen Requirements:

A minimum volume of 250 µL of capillary blood is required per ISAC Microarray panel.

ImmunoCAP® Allergen Component Packages***Foods**

- ☐ Peanut Component Package **\$200**
☐ Egg Component Package **\$150**
☐ Milk Component Package **\$200**
☐ Wheat Component Package **\$100**
☐ Kiwi Component Package **\$100**
☐ Celery Component Package **\$150**
☐ Brazil Nut Component Package **\$100**
☐ Hazelnut Component Package **\$150**
☐ Fish Component Package **\$150**
☐ Soy Component Package **\$100**
☐ Shrimp Component Package **\$100**
☐ Stone Fruit Component Package **\$200**

(Please specify which complete stone fruit allergen to include [e.g., peach, cherry])

Epidermals and Animal Protein

- ☐ Dog Component Package **\$150**
☐ Cat Component Package **\$150**

Grass Pollens

- ☐ Bermuda Grass Component Package **\$150**
☐ Timothy Grass Component Package **\$200**

Microorganisms

- ☐ Alternaria Component Package **\$100**
☐ Aspergillus Component Package **\$200**

Mites

- ☐ House Dust Mite Component Package **\$150**

ImmunoCAP ISAC Microarray IgG/IgG4 Panels are available for research purposes only.

- ☐ ImmunoCAP ISAC Microarray IgG **\$250**
☐ ImmunoCAP ISAC Microarray IgG4 **\$250**

*Test results available from the Phadia Immunology Reference Laboratory (PiRL) may be produced by assays classified as Laboratory Developed Tests. These assays have been developed and validated by PiRL. Interpretation of all test results is the sole responsibility of the licensed healthcare professional ordering the test.

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 V4-4/11

Occupational

- ☐ Latex Component Package **\$200**

Tree Pollens

- ☐ Birch Component Package **\$200**
☐ Cypress Component Package **\$100**
☐ Olive Component Package **\$100**

Venoms

- ☐ Honey Bee Component Package **\$150**
☐ Common Wasp Component Package **\$150**
☐ Paper Wasp Component Package **\$150**

Weed Pollens

- ☐ Ragweed Component Package **\$100**
☐ Mugwort Component Package **\$150**
☐ Saltwort Component Package **\$100**

Allergen Component Specimen Requirements:

A full 7 mL separator tube is required for component analysis. Please centrifuge specimen and aliquot specimen into the PiRL transport tube provided in the blood collection kit.

Shipping:

Specimens should be shipped at room temperature OVERNIGHT using the PiRL sample tube holder, biohazard bag, and FedEx Clinical Pak with label provided in the blood collection kit (cold pack is not needed). **Please send samples WITH appropriate requisition forms provided in the blood collection kit.** If the sample can't be shipped once it is collected, it must be refrigerated until it can be shipped. Also, please ensure that the matching patient ID labels have been affixed to the blood collection tube and to this requisition form.

For additional information or to order additional blood draw supplies, contact PiRL Customer Service at 800.346.4364, option 1, or visit www.PiRLlab.com.

HIPAA: PiRL is committed to compliance with HIPAA and its regulations. All protected health information (PHI) provided to PiRL shall be treated as confidential. Under federal law, Phadia may only release lab results to the ordering physician or other healthcare provider responsible for the patient's care, and not to third parties, including the patient.

Phadia
 Setting the Standard

Phadia US Inc
 4169 Commercial Avenue
 Portage, MI 49002
 800.346.4364

ImmunoCAP® X-map

Tec		Allergen Component			Possible Cross-Reactivity																								
ISAC	ImmunoCAP	SOURCE	COMPONENT	PROTEIN FAMILY OR FUNCTION	Fruits	Vegetables	Nuts and seeds	Legumes	Cereals	Spices	Grass pollen	Weed pollen	Tree pollen	Latex	Molds	Animals	Meat	Milk	Egg	Fish	Seafood	Parasites	Mites	Insects	Venoms				
FOODS OF PLANT ORIGIN		Kiwi	Act d 1	Cysteine protease	•																								
			Act d 2	Thaumatin-like protein		•																							
			Act d 5	Kiwelin		•																							
			Act d 8	PR-10																									
			Api g 1	PR-10																									
			Dau c 1	PR-10																									
			Mal d 1	PR-10																									
			Pru p 1	PR-10																									
			Pru p 3	LTP																									
			Pru p 4	Profilin																									
			Ber e 1	Storage protein, 2S albumin																									
			Ana o 2	Storage protein, 2S albumin																									
			Ana o 3	Storage protein, 2S albumin																									
			Cor a 1.0401	PR-10																									
			Cor a 8	LTP																									
			Cor a 9	Storage protein, 11S globulin																									
			Jug r 1	Storage protein, 2S albumin																									
			Jug r 3	LTP																									
			Ses i 1	Storage protein, 2S albumin																									
			Ara h 1	Storage protein, 7S globulin																									
			Ara h 2	Storage protein, 2S albumin																									
			Ara h 3	Storage protein, 11S globulin																									
			Ara h 8	PR-10																									
			Ara h 9	LTP																									
			Gly m 4	PR-10																									
			Gly m 5	Storage protein, beta-conglycinin																									
			Gly m 6	Storage protein, glycinin																									
			Gliadin	Gliadin																									
			Tri a 19	Omega 5 gliadin																									
			Tri a 18	Agglutinin isolectin 1																									
			Tri a aA_T1	Alpha-amylase/trypsin inhibitors																									
GRASS POLLEN		Bermuda	Cyn d 1	Grass group 1																									
		Timothy	Phl p 1	Grass group 1																									
			Phl p 2	Grass group 2																									
			Phl p 4	Berberine bridge enzyme																									
			Phl p 5	Grass group 5																									
			Phl p 6	Grass group 6																									
			Phl p 7	Polcalcin																									
			Phl p 11	Trypsin inhibitor																									
	Phl p 12	Profilin																											
TREE POLLEN		Alder	Aln g 1	PR-10																									
		Birch	Bet v 1	PR-10																									
			Bet v 2	Profilin																									
			Bet v 4	Polcalcin																									
			Bet v 6	Isoflavone reductases																									
		Hazel	Cor a 1.0101	PR-10																									
		Cypress	Cup a 1	Pectate lyase																									
		Japanese cedar	Cry j 1	Pectate lyase																									
		Olive	Ole e 1	Trypsin inhibitor																									
			Ole e 2	Profilin																									
			Ole e 7	LTP																									
			Ole e 9	Glucanase																									
		Plane	Pla a 1	Invertase inhibitor																									
			Pla a 2	Polygalacturonases																									
		WEED POLLEN		Ragweed	Amb a 1	Pectate lyase																							
Mugwort	Art v 1			Defensin																									
	Art v 3			LTP																									
Wall pellitory	Par j 2			LTP																									
Saltwort	Sal k 1			Pectin methylesterase																									
Pigweed	Che a 1			Trypsin inhibitor																									
Mercury	Mer a 1			Profilin																									
Plantain	Pla 11			Pectate lyase																									

Important Allergen Families

LTP (non-specific Lipid Transfer Protein, nsLTP)

- A protein stable to heat and digestion causing reactions also to cooked foods.
- Often associated with systemic and more severe reactions in addition to oral allergy syndrome (OAS).
- Often associated with allergic reactions to fruit and vegetables in southern Europe.

Storage proteins

- Proteins found in seeds serving as source material during the growth of a new plant.
- Often stable and heat-resistant proteins causing reactions also to cooked foods.

PR-10 protein, Bet v 1 homologue

- A heat labile protein, cooked foods are often tolerated.
- Often associated with local symptoms such as OAS.
- Often associated with allergic reactions to fruit and vegetables in northern Europe.

Profilin

- An actin-binding protein showing great homology and cross-reactivity even between distant related species.
- Recognized as a minor allergen in plants and plant-related foods.
- Seldom associated with clinical symptoms but may cause demonstrable or even severe reactions in a small minority of patients.

CCD

- Cross-reactive carbohydrate determinants are seldom associated with clinical symptoms but may cause demonstrable or even severe reactions in a small minority of patients.

Lipocalin

- Stable proteins and important allergens in animals
- Allergen components displaying limited cross-reactivity between species.

Parvalbumin

- A major allergen in fish.
- A marker for cross-reactivity among different species of fish and amphibians.
- A protein stable to heat and digestion causing reactions also to cooked foods.

Tropomyosin

- An actin-binding protein in muscle fibers.
- A marker for cross-reactivity between crustaceans, mites and cockroach.

Serum albumin

- A common protein present in different biological fluids and solids, eg. cow's milk and beef, eggs and chicken.
- Cross-reactions between albumins from different animal species are well known, for example between cat and dog and cat and pig.

Important Allergens

Ara h 1, 2, 3, 8 and 9 (peanut)

- IgE abs to Ara h 1, 2, 3 and 9 (LTP) are associated with peanut reactions, which in many cases can be severe.
- IgE abs to Ara h 8 (PR-10) are usually associated with milder, local symptoms such as OAS, originating from birch sensitization.

Ovomucoid (egg white)

- IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw nor cooked is tolerated.

Omega-5 gliadin/ Tri a 19 (wheat)

- IgE abs to omega-5 gliadin (Tri a 19) in adults are associated with a risk of exercise- or NSAIDs-induced reactions in connection with wheat ingestion.
- IgE abs to omega-5 gliadin in children are associated with a risk of immediate reactions to wheat.

Alt a 1 (Alternaria)

- IgE abs to Alt a 1 are associated with asthma development.

Gly m 4, 5 and 6 (soy)

- Gly m 5 and 6 are associated with clinical reactions to soy. Gly m 5 - Ara h 1 and Gly m 6 - Ara h 3 share homologous structures.
- IgE abs to Gly m 4 (PR-10) are usually associated with milder, local symptoms such as OAS, originating from birch sensitization.

- Primarily species-specific allergen

ImmunoCAP® X-map

Tec		Allergen Component			Possible Cross-Reactivity																							
ISAC	ImmunoCAP	SOURCE	COMPONENT	PROTEIN FAMILY OR FUNCTION	Fruits	Vegetables	Nuts and seeds	Legumes	Cereals	Spices	Grass pollen	Weed pollen	Tree pollen	Latex	Molds	Animals	Meat	Milk	Egg	Fish	Seafood	Parasites	Mites	Insects	Venoms			
x	x	LATEX	Latex	Hev b 1	Rubber elongation factor																							
x	x			Hev b 3	Small rubber particle protein																							
x	x			Hev b 5	Acidic protein																							
x	x			Hev b 6	Hevein																							
x	x			Hev b 8	Profilin	x	x	x	x	x	x	x	x	x														
x				Hev b 9	Glycolytic enzyme																							
	x			Hev b 11	Chitinases																							
x	x	CCD	Bromelain	Ana c 2	CCD	x	x	x	x	x	x	x	x	x								x	x					
	x			MUXF3 CCD	CCD	x	x	x	x	x	x	x	x	x								x	x					
x	x	FOOD OF ANIMAL ORIGIN	Milk	Bos d 4	Alpha-lactalbumin																							
x	x			Bos d 5	Beta-lactoglobulin																							
x	x		Cow	Bos d 6	Serum albumin																							
x	x		Milk	Bos d 8	Caseins																							
x	x			Lactoferrin	Transferrin																							
x	x		Egg white	Gal d 1	Ovomucoid																							
x	x			Gal d 2	Ovalbumin																							
x	x			Gal d 3	Conalbumin																							
x			Egg yolk/chicken	Gal d 5	Livetin (serum albumin but species specific)																							
x	x		Carp	Cyp c 1	Parvalbumin																							
x	x		Cod	Gad c 1	Parvalbumin																							
x	x		Shrimp	Pen a 1	Tropomyosin																							
x				Pen i 1	Tropomyosin																							
x				Pen m 1	Tropomyosin																							
x	x	MITES	Mite	Der p 1	Cysteine protease																							
x	x			Der p 2	NPC2 family																							
x	x			Der p 10	Tropomyosin																							
x				Der f 1	Cysteine protease																							
x				Der f 2	NPC2 family																							
x				Eur m 2	NPC2 family																							
x	x	ANIMALS	Dog	Can f 1	Lipocalin																							
x	x			Can f 2	Lipocalin																							
x	x			Can f 3	Serum albumin																							
x	x		Cat	Fel d 1	Uteroglobin																							
x	x			Fel d 2	Serum albumin																							
x				Fel d 4	Lipocalin																							
x			Mouse	Mus m 1	Lipocalin																							
			Horse	Equ c 1	Lipocalin																							
x			Horse	Equ c 3	Serum albumin																							
	x		Pig	Sus s PSA	Serum albumin																							
x	x	MOLD	Alternaria	Alt a 1	Acidic glycoprotein																							
x				Alt a 6	Enolase																							
x	x		Aspergillus	Asp f 1	Mitogillin family																							
x	x			Asp f 2	Fibrinogen binding proteins																							
x	x			Asp f 3	Peroxisomal protein																							
x	x			Asp f 4	Unknown																							
x	x			Asp f 6	Mn superoxide dismutase																							
x		Cladosporium	Cla h 8	Mannitol dehydrogenase																								
x		COCKROACH	Cockroach	Bla g 1	Cockroach group 1																							
x				Bla g 2	Aspartic protease																							
x				Bla g 4	Calycin																							
x				Bla g 5	Glutathione S-transferase																							
x				Bla g 7	Tropomyosin																							
x	x	VENOM	Bee	Api m 1	Phospholipase A2																							
x				Api m 4	Melittin																							
2010	2010		Paper wasp	Pol d 5	Ag 5																							
			Wasp	Ves v 1	Phospholipase A1																							
2010	2010			Ves v 5	Ag 5																							
x		PARASITE	Anisakis	Ani s 1	Serine protease inhibitor																							
x				Ani s 3	Tropomyosin																							

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Gly m 4, 5 and 6 (soy)

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- IgE abs to Gly m 4 (PR-10) are usually associated with milder, local symptoms such as OAS, originating from birch sensitization.

- Primarily species-specific allergen